FIG. 1

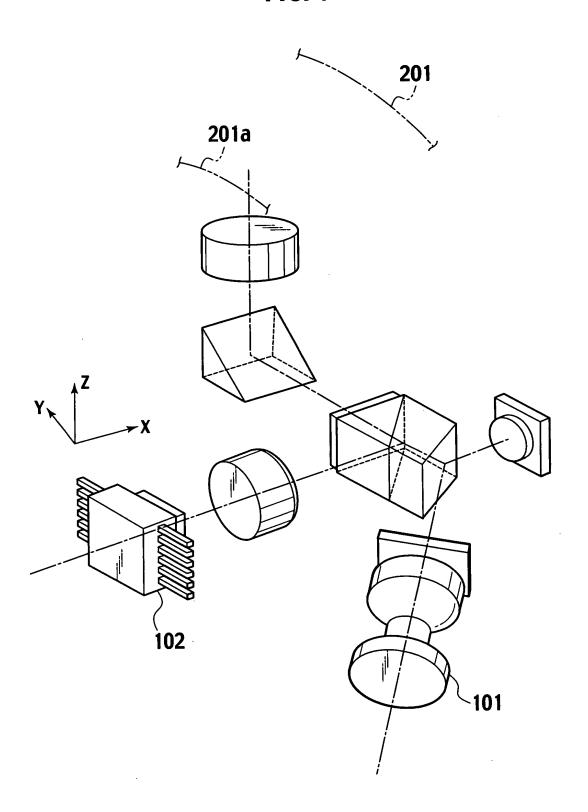


FIG. 2

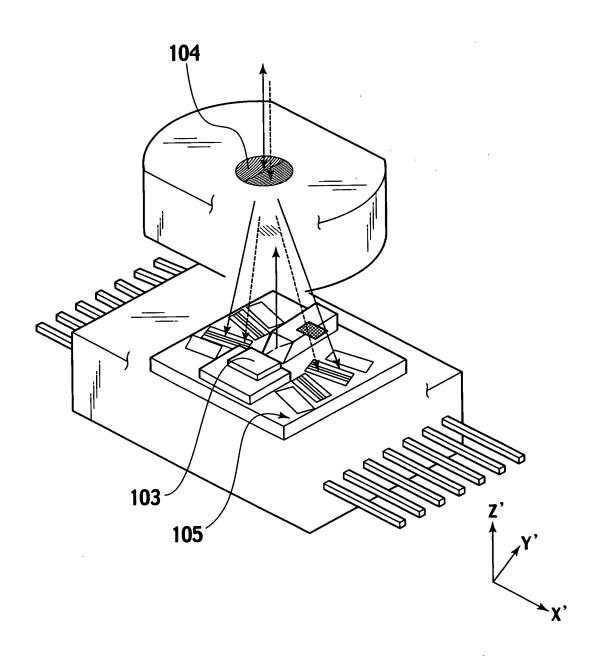


FIG. 3

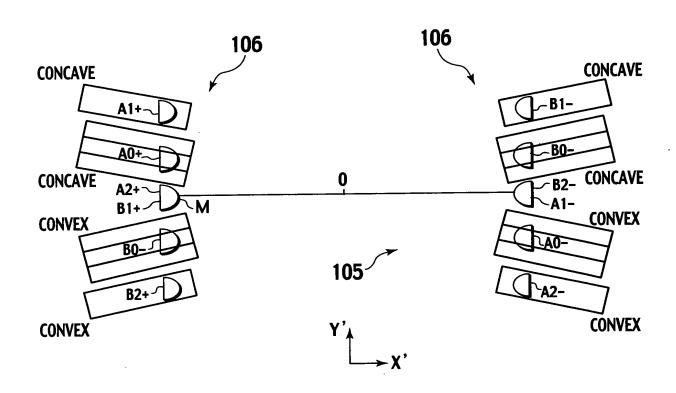


FIG. 4

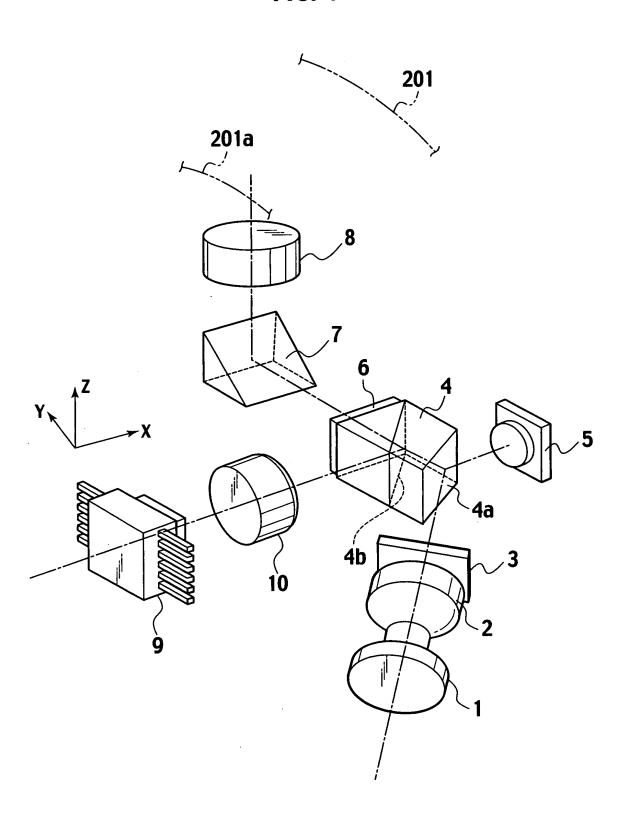


FIG. 5

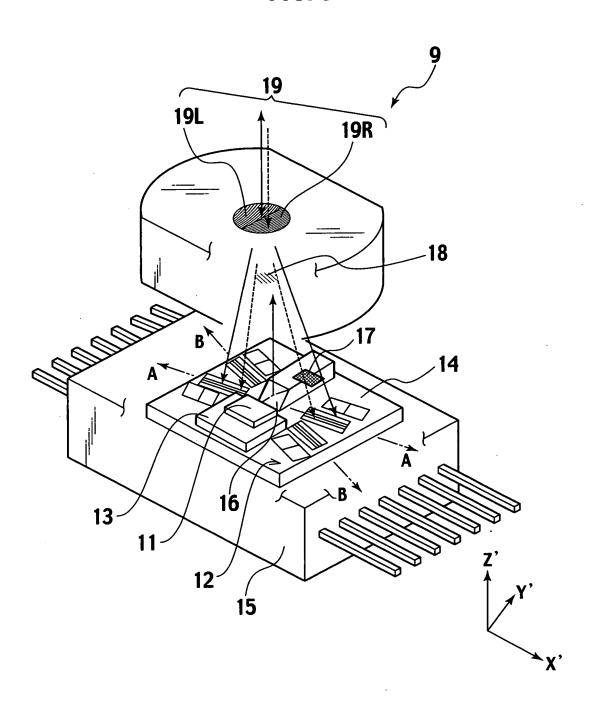
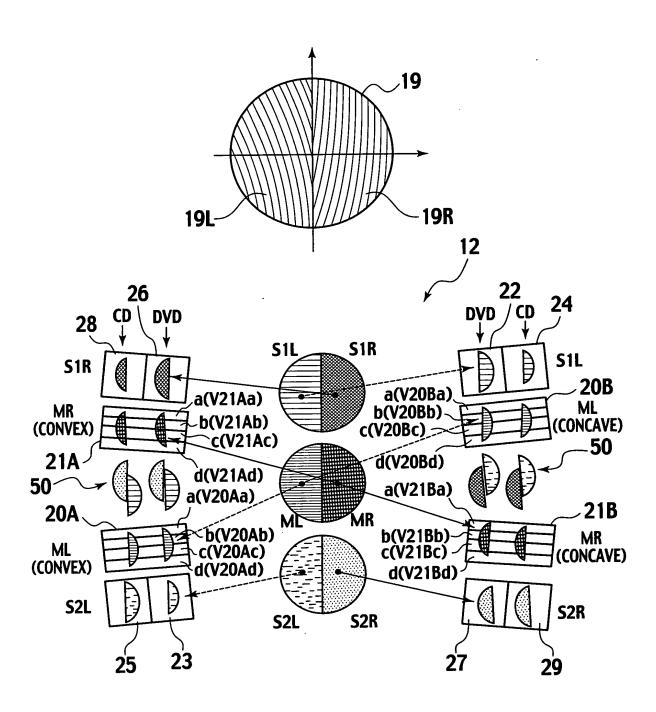
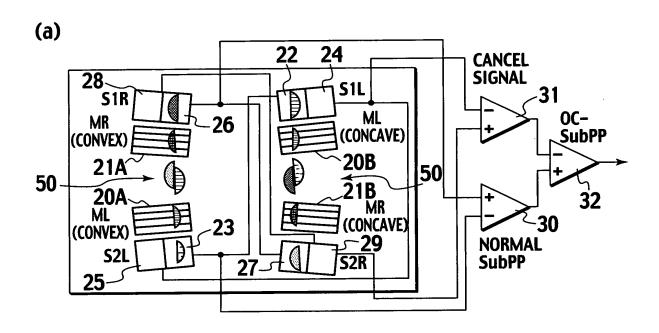


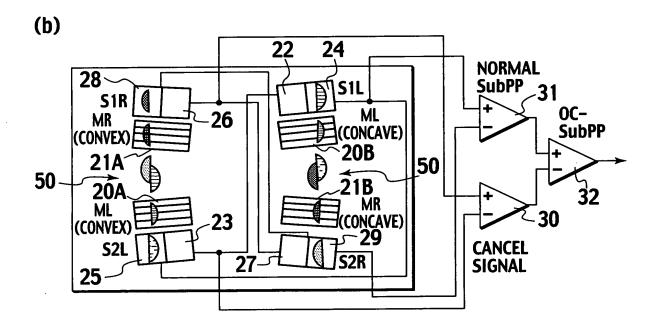
FIG. 6



 $\Psi_{n,p}$

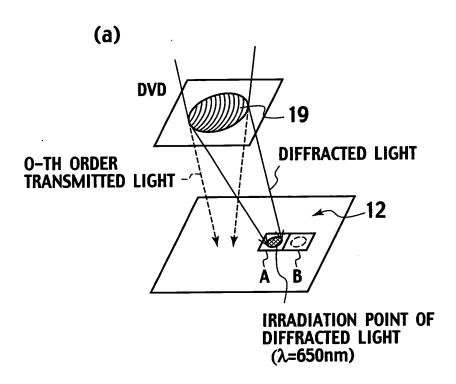
FIG. 8

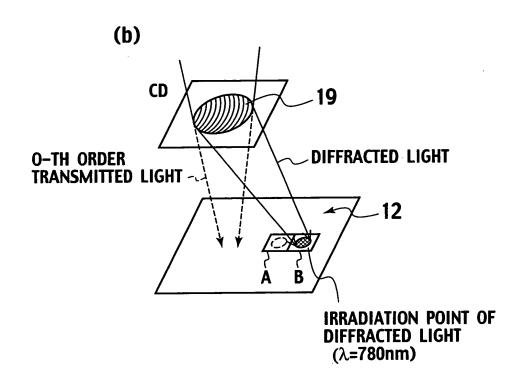


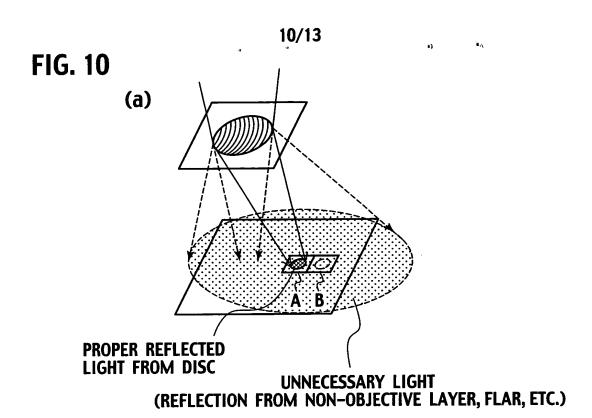


*4

FIG. 9







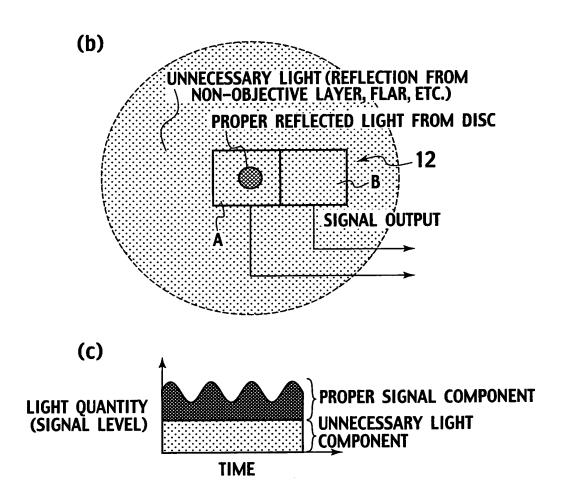


FIG. 11

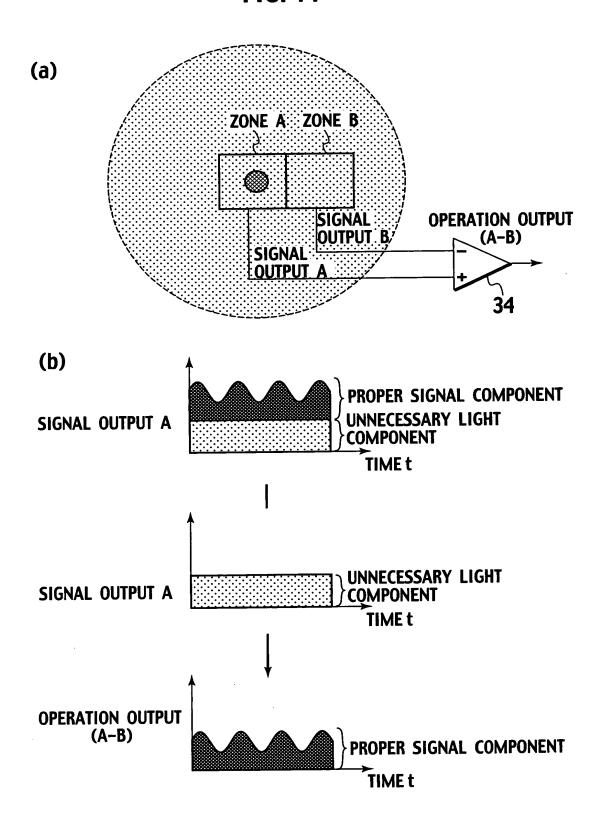


FIG. 12

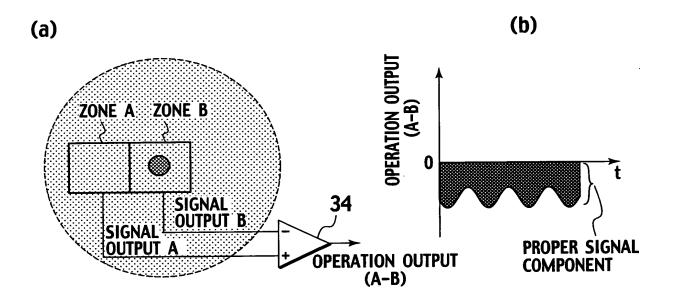


FIG. 13

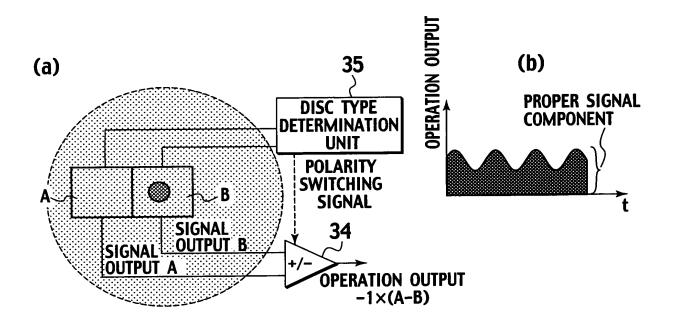


FIG. 14

SIGNAL OUTPUT S1'

A

DISC TYPE
DETERMINATION UNIT

POLARITY SWITCHING SIGNAL
SIGNAL OUTPUT S2'

34

